



ST. LAWRENCE HIGH SCHOOL

A JESUIT CHRISTIAN MINORITY INSTITUTION



Sub: Biological Sciences

Class: XI

Date: 28.11.2020

Nucleic Acids

F.M:15

WORKSHEET – 54

(1x15=15)

- i) DNA and RNA are
(1) Nucleotides (2) Nucleosides (3) Nitrogenous bases (4) Nucleic Acids
- ii) Which of the following is not present in a nucleotide?
(1) Nitrogenous bases (2) Hexose sugar (3) Phosphate (4) Pentose sugar
- iii) Which of the following is not a pyrimidine?
(1) Uracil (2) Thymine (3) Cytosine (4) Adenine
- iv) 2 amino 6 oxy purine is-
(1) Adenine (2) Thymine (3) Guanine (4) Cytosine
- v) The deoxy ribose sugar lacks one oxygen at
(1) 3' (2) 5' (3) 2' (4) 4'
- vi) The name of Thymine is
(1) 2,4-di-oxy 5 methyl pyrimidine (2) 2,4-di-oxy pyrimidine (3) 2-oxy 4-amino pyrimidine (4) All of these
- vii) Which of the following is found in between Nitrogenous base and the pentose sugar?
(1) Ester bond (2) Glycosidic bond (3) Phosphodiester bond (4) None of these
- viii) Adenosine is
(1) Nitrogenous base (2) Nucleosides (3) Nucleotides (4) Nucleic Acids
- ix) Adenosine + Phosphoric Acid
(1) Adenine (2) Adenylic Acid (3) Adenidine (4) Adenosic Acid
- x) According to Chargaff's rule,
(1) A+G=T+C (2) A/G=T/C (3) A X G= T X C (4) A-T= G-C
- xi) One complete turn of the helix has
(1) 34 Å (2) 3.4 Å (3) 0.34 Å (4) 0.034 Å
- xii) The number of bases present in one turn of nucleic acids-
(1) 12 (2) 10 (3) 8 (4) 14
- xiii) Which of the following is directed outwards?
(1) Major groove (2) Minor groove (3) Both (1) and (2) (4) None of these
- xiv) The number of Hydrogen bonds present between A and T is
(1) 1 (2) 2 (3) 3 (4) 4
- xv) The DNA helix diameter is about
(1) 10 Å (2) 20 Å (3) 30 Å (4) 40 Å

Manjaree Guha